

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012860

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J23/22 B01J23/10 B01D53/94

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 787 521 A (EBARA CORP ; MITSUBISHI CHEM CORP (JP)) 6 August 1997 (1997-08-06) abstract examples 1-3 tables 3,4	1-11
Y		2,3,8,9
X	US 4 221 768 A (INOUE AKIRA ET AL) 9 September 1980 (1980-09-09) column 2, line 31 - line 36 examples 1,27 table 6 claim 1	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

3 January 2005

Date of mailing of the international search report

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 430 730 A (MITSUBISHI CHEM IND) 7 April 1976 (1976-04-07) page 1, line 50 - line 68 page 2, line 11 - line 39 sentence 84 - sentence 124 examples 1-3,12 claims	1-11
Y	-----	2,3,8,9
X	GB 2 149 680 A (NIPPON CATALYTIC CHEM IND) 19 June 1985 (1985-06-19) page 1, line 23 - line 24 example 16 claim 1	1-11
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A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 216361 A (TOSHIBA CORP), 10 August 1999 (1999-08-10) abstract	1-11
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A	US 5 300 472 A (BRAND REINHOLD ET AL) 5 April 1994 (1994-04-05) example 29 abstract	1,5-7, 10,11
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